

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Previously Presented) A method for treating an external wound from a non-contact distance d , comprising the steps of:

positioning an ultrasound transducer such that a distal radiation surface of the ultrasound transducer is positioned at a distance substantially equal to the non-contact distance d from the surface of the external wound; and

creating and maintaining ultrasound standing waves between the surface of the external wound and the distal radiation surface, wherein the ultrasound standing waves are created and maintained in air along the non-contact distance d , wherein the non-contact distance d is determined by the formula:

$$d = n \times \lambda/2,$$

where λ is the wavelength of an ultrasound standing wave and n is a positive integer, and wherein the ultrasound standing waves create radiation pressure for providing a bactericidal and a therapeutic effect to the external wound for decreasing the healing time for the external wound.

2. (Original) The method of Claim 1, wherein the ultrasound transducer operates at a frequency of from about 10kHz to 10^3 MHz.

3. (Previously Presented) The method of Claim 1, wherein the non-contact distance d is at least 0.1 inch.

Claims 4 and 5. (Cancelled)

6. (Previously Presented) The method of Claim 1, wherein in a prior step a gel or drug is applied to the wound surface.

Claims 7 -21. (Cancelled)

22. (Previously Presented) A method for treating an external wound from a non-contact distance comprising the steps of:

providing a transducer having a distal radiation surface arranged at the non-contact distance from the surface of the external wound for emitting ultrasonic waves;
and

creating and maintaining ultrasound standing waves in air between the surface of the external wound and the distal radiation surface by adjusting the non-contact distance, wherein the ultrasound standing waves create radiation pressure for providing a bactericidal and a therapeutic effect to the external wound for decreasing the healing time for the external wound.

23. (Previously Presented) The method of Claim 22, wherein the transducer operates at a frequency from 10 kHz to 10,000 MHz.

24. (Previously Presented) The method of Claim 22, wherein the non-contact distance is at least 0.1 inch.

25. (Previously Presented) The method of Claim 22, further comprising the steps of:
driving the transducer by pulsed or modulated frequency; and
selecting the driving wave form of the transducer from the group consisting of sinusoidal, rectangular, trapezoidal and triangular wave forms.

26. (Previously Presented) The method of Claim 22, wherein the therapeutic effect is selected from the group consisting of increasing blood flow to the external wound, mechanically cleansing the external wound, dissolving blood clots within a vessel exposed as an external wound, diffusing grafts, stimulating cell growth, providing at least one medicament to the external wound, and penetrating at least one medicament through the surface of the external wound.

27. (Previously Presented) The method of Claim 22, further comprising the steps of:
applying a drug to the external wound; and
penetrating the drug through the surface of the external wound using the radiation pressure created by the ultrasound standing waves.

28. (Previously Presented) The method of Claim 22, further comprising the step of providing a bushing around the distal radiation surface for increasing the radiation pressure created by the ultrasound standing waves, wherein the

non-contact distance is between a distal end of the bushing and the surface of the external wound.

29. (Previously Presented) The method of Claim 22, further comprising the step of focusing the ultrasound waves.

30. (Cancelled)